§ 173.476

§ 173.476 Approval of special form Class 7 (radioactive) materials.

- (a) Each offeror of special form Class 7 (radioactive) materials must maintain on file for at least one year after the latest shipment, and provide to the Associate Administrator for Hazardous Materials Safety on request, a complete safety analysis, including documentation of any tests, demonstrating that the special form material meets the requirements of §173.469. An IAEA Certificate of Competent Authority issued for the special form material may be used to satisfy this requirement.
- (b) Prior to the first export shipment of a special form Class 7 (radioactive) material from the United States, each offeror shall obtain a U.S. Competent Authority Certificate for the specific material. For special form material manufactured outside the United States, an IAEA Certificate of Competent Authority from the country of origin may be used to meet this requirement.
- (c) Each request for a U.S. Competent Authority Certificate as required by the IAEA regulations must be submitted in writing, in triplicate, to the Associate Administrator for Hazardous Materials Safety. Each request is considered in the order in which it is received. To allow sufficient time for consideration, requests must be received at least 90 days before the requested effective date. Each petition for a U.S. Competent Authority Certificate must include the following information:
- (1) A detailed description of the material, or if a capsule, a detailed description of the contents. Particular reference must be made to both physical and chemical states;
- (2) A detailed statement of the capsule design and dimensions, including complete engineering drawings [22cm \times 30cm (8½ inches \times 11 inches)] and schedules of material, and methods of construction:
- (3) A statement of the tests that have been made and their results; or evidence based on calculative methods to show that the material is able to pass the tests; or other evidence that the special form Class 7 (radioactive) material complies with §173.469; and

- (4) For the original request for a Competent Authority Certificate, evidence of a quality assurance program.
- (d) Paragraphs (a) and (b) of this section do not apply in those cases where A_1 equals A_2 and the material is not required to be described on the shipping papers as "Radioactive Material, Special Form, n.o.s."

Subparts J-O[Reserved]

APPENDIX A TO PART 173—[RESERVED]

- APPENDIX B TO PART 173—PROCEDURE FOR TESTING CHEMICAL COMPATIBIL-ITY AND RATE OF PERMEATION IN PLASTIC PACKAGING AND RECEP-TACLES
- 1. The purpose of this procedure is to determine the chemical compatibility and permeability of liquid hazardous materials packaged in plastic packaging and receptacles. Alternatives for this procedure are permitted as specified in §173.24(e)(3)(iii) of this subchapter.
- 2. Compatibility and rate of permeation are determined by subjecting full size plastic containers (or smaller containers as permitted in paragraph 4 of this Appendix) and hazardous material lading to one of the following combinations of time and temperature:
- a. Test Method 1: 180 days at a temperature no lower than 18°C. $(64^{\circ}F.)$
- b. Test Method 2: 28 days at a temperature no lower than 50° C. $(122^{\circ}F.)$
- c. Test Method 3: 14 days at a temperature no lower than 60° C. (140°F.)
- 3. Regardless of which test method is used, at least three sample containers shall be tested for each combination of hazardous material and size and design of container. Fill containers to rated capacity with the specific hazardous material (at the concentration to be transported) and close as for shipment. For the first and last 24 hours of storage under the selected test method, place the containers with closures downward, except that containers fitted with a vent are so placed on each occasion for five minutes only.
- 4. For testing under Test Method 2 or 3 in those instances where it is not practicable to use full size containers, smaller containers may be used. The small container shall be manufactured by the same process as the larger container (for example, using the same method of molding and processing temperatures) and be made of identical resins, pigments and additives.
- 5. Determine filled container weight or net weight of contents both before and after